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Matrix Representation of Dilation Operator on the Product of Zero-Dimensional Locally Compact Abelian Groups

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In the real wavelet analysis d -dimensional dilation operator may be written with the help of an integer-valued $d \times d$ matrix. We find the matrix representation of the dilation operator on the product of zero-dimensional locally compact Abelian groups.

Key words: zero-dimensional group, delation operator, multiresolution analysis.

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